Laborator Medical

Ser control: ?????? -N
Biochimie Nivel Normal **Echipament: Analizor automat bio**
Lot ????? Expiră la ?????

Proba	Uree	Calciu	Creatinina	Gamma GT	ALP	Trigliceride	Fe	Acid uric	Glucoza	ALT GPT
1	41.6	8.5	1.1	36.9	176.4	116.4	118.0	5.75	96.53	43.5
2	41.3	8.3	1.11	33.4	178.0	118.3	118.6	5.95	96.15	40
3	40.5	8.7	1.09	36.2	179.5	117.8	118.4	5.99	97.63	39.7
4	39.8	8.5	1.09	34.5	184.3	116.3	117.0	6.15	96.86	42.4
5	40.3	8.3	1.1	36.1	179.2	116.5	119.0	6.25	98.39	42.8
6	41.6	8.2	1.11	33.2	178.3	116.9	119.2	6.35	98.99	43.1
7	41.3	8.4	1.12	36.4	185.0	117.3	120.0	6.25	98.68	43.5
8	41.5	8.6	1.11	34.8	176.4	116.6	118.8	6.35	97.82	43.5
9	41.6	8.5	1.11	36.4	178.6	117.6	120.4	6.33	97.31	42.7
10	41.6	8.3	1.1	36.3	179.0	116.3	121.6	6.35	97.93	43.5
average-Med	**41.11**	**8.43**	**1.104**	**35.42**	**179.47**	**117**	**119.1**	**6.17**	**97.629**	**42.47**
stdev	0.6607	0.1567	0.0097	1.3415	2.9315	0.7102	1.3004	0.2090	0.9280	1.4369
Cv	1.6072	1.8589	0.8751	3.7873	1.6334	0.6070	1.0919	3.3864	0.9506	3.3832
UA	**0.661**	**0.157**	**0.010**	**1.341**	**2.931**	**0.710**	**1.3004**	**0.209**	**0.9280**	**1.437**
Incertitudine etalonare	3.95		0.35						22.4	
UBet	**1.98**	**0**	**0.175**	**0**	**0**	**0**	**0**	**0**	**11.2**	**0**
Domeniu	33,7 - 45,6	7,12 - 9,06	0,82 - 1,18	30,3 - 43,5	135 -195	102 - 141	95 - 137	5,51 - 7,53	75,7 - 102,4	35,8 - 51,5
Val tinta	39.6	8.09	1	36.9	165	121	116	6.52	89	43.7
a- limita inf	33.7	7.12	0.82	30.3	135	102	95	5.51	75.7	35.8
a+limita sup	45.6	9.06	1.18	43.5	195	141	137	7.53	102.4	51.5
a+-a- Interva	**11.9**	**1.9**	**0.4**	**13.2**	**60.0**	**39.0**	**42.0**	**2.0**	**26.7**	**15.7**
UBRef	**3.4352**	**0.5600**	**0.1039**	**3.8105**	**17.3205**	**11.2583**	**12.1244**	**0.5831**	**7.7076**	**4.5322**
suma patrate	1705.734	71.379	1.260	1269.096	32509.481	13815.750	14331.810	38.434	9716.269	1824.242
UC	**41.3005**	**8.4486**	**1.1226**	**35.6244**	**180.3039**	**117.5404**	**119.7155**	**6.1995**	**98.5711**	**42.7111**
UE	**82.6011**	**16.8972**	**2.2452**	**71.2488**	**360.6077**	**235.0808**	**239.4311**	**12.3990**	**197.1423**	**85.4223**
BIAS%	3.8131	4.2027	10.4000	-4.0108	8.7697	-3.3058	2.6724	-5.3374	9.6955	-2.8146

Laborator Medical

Ser control: ?????? -N
Biochimie Nivel Normal **Echipament**
Lot ????? Expiră la ?????

Proba	Uree	Calcium	Creatinina	Gamma GT	ALP	Trigliceride	Fe	Acid uric
1	155.3	12.2	3.87	189.0	434.0	209.7	167.0	10.90
2	154.2	12.3	3.8	189.0	436.0	209.5	181.0	10.00
3	155.2	12.7	3.88	193.0	438.0	208.1	172.0	9.90
4	154.6	12.3	3.81	201.0	440.0	206	176.0	9.60
5	154.3	12.5	3.87	205.0	448.0	207.2	178.0	11.00
6	155.2	12.3	3.82	195.0	452.0	207.4	182.0	10.90
7	155.3	12.7	3.87	196.0	453.0	208.8	184.0	10.00
8	154.1	12.5	3.87	198.0	457.0	205	176.0	10.80
9	154.3	12.3	3.86	196.0	442.0	206.1	174.0	10.90
10	154.2	12.3	3.82	198.0	439.0	200.7	190.0	11.00
average-Med	**154.67**	**12.41**	**3.85**	**196.0**	**443.9**	**205.5**	**178**	**10.5**
stdev	0.5165	0.1792	0.0306	4.9666	7.9924	0.7071	6.5490	0.5518
Cv	0.3339	1.4440	0.7946	2.5340	1.8005	0.3441	3.6792	5.2549
UA	**0.517**	**0.179**	**0.031**	**4.967**	**7.992**	**0.707**	**6.5490**	**0.552**
Incertitudine etalonare	12.4		0.35					
UBetal	**6.2**	**0**	**0.175**	**0**	**0**	**0**	**0**	**0**
Domeniu	135 - 183	11,7 - 14,8	2,78 - 4,00	152 - 218	365 - 525	164 - 226	137 - 197	8,8 - 11,9
Val tinta	159	13.2	3.39	185	445	195	167	10.3
a- limita inf	135	11.7	2.78	152	365	164	137	8.8
a+limita sup	183	14.8	4.00	218	525	226	197	11.9
a+-a- Interva	**48.0**	**3.1**	**1.2**	**66.0**	**160.0**	**62.0**	**60.0**	**3.1**
UBref	**13.8564**	**0.8949**	**0.3522**	**19.0526**	**46.1880**	**17.8979**	**17.3205**	**0.8949**
suma patrate	24153.25	154.81	14.95	38779.00	199180.54	42550.58	31984.00	111.05
UC	**155.4132**	**12.4422**	**3.8670**	**196.9238**	**446.2965**	**206.2779**	**178.8407**	**10.5381**
UE	**310.8263**	**24.8844**	**7.7341**	**393.8477**	**892.5929**	**412.5559**	**357.6814**	**21.0761**
BIAS%	-2.7233	-5.9848	13.4808	5.9459	-0.2472	5.3846	6.5868	1.9417

RSD-Abatere standard relativa=Cv-coeficient de variatie %
RSD=Cv=stdev / Xmed=s / Xmed
RSD%=Cv%=stdev / Xmedx100=s / Xmedx100 %
SQORT-Radical
SUMSQ-suma de patrate
*-puterea 2
AVERAGE-media

Laborator Medical

Ser control: ?????? -N
Biochimie Nivel Normal
Lot ????? Expiră la ?????

Proba	Uree	Calciu	Creatinina	Gamma GT	ALP	Trigliceride	Fe
1	10.40	2.12	0.27	9.22	44.1	29.10	29.5
2	10.30	2.07	0.27	8.35	44.5	29.5	29.6
3	10.12	2.17	0.27	9.05	48.8	29.45	29.6
4	9.90	2.12	0.27	8.62	46.0	29.07	29.2
5	10.07	2.07	0.27	9.02	44.8	29.12	29.7
6	10.40	2.05	0.27	8.30	44.5	29.22	29.8
7	10.30	2.10	0.28	9.10	46.2	29.32	30.0
8	10.30	2.15	0.27	8.70	44.1	29.15	29.7
9	10.50	2.12	0.27	9.10	44.6	29.4	30.1
10	10.70	2.07	0.27	9.07	44.8	29.07	30.4
average-Mec	**10.30**	**2.10**	**0.27**	**8.85**	**45.24**	**29.24**	**29.76**
stdev	0.2274	0.0389	0.0032	0.3345	1.4401	0.1647	0.3373
Cv	2.2077	1.8503	1.1669	3.7784	3.1832	0.5631	1.1334
UA	**0.2274**	**0.039**	**0.0032**	**0.334**	**1.440**	**0.1647**	**0.3373**
Incertitudine etalonare	3.95		0.35				
UBet	**1.975**	**0**	**0.175**	**0**	**0**	**0**	**0**
Domeniu	33,7 - 45,(	7,12 - 9,06	0,82 - 1,18	30,3 - 43,5	135 -195	102 - 141	95 - 137
Val tinta	39.6	8.09	1	36.9	165	121	116
a- limita inf	33.7	7.12	0.82	30.3	135	102	95
a+limita sup	45.6	9.06	1.18	43.5	195	141	137
a+-a- Interva	**11.9**	**1.9**	**0.4**	**13.2**	**60.0**	**39.0**	**42.0**
UBRef	**3.4352**	**0.5600**	**0.1039**	**3.8105**	**17.3205**	**11.2583**	**12.1244**
suma patrate	3.9523	0.0015	0.0306	0.1119	2.0738	0.0271	0.1138
UC	**1.9880**	**0.0389**	**0.1750**	**0.3345**	**1.4401**	**0.1647**	**0.3373**
UE	**3.9761**	**0.0779**	**0.3501**	**0.6690**	**2.8801**	**0.3293**	**0.6746**
BIAS%	-73.9924	-73.9926	-72.9000	-76.0081	-72.5818	-75.8347	-74.3448

Echipament: Analizor automat biochimie ????? seria ?????

Acid uric	Glucoza	ALT GPT	AST GOT	Cholesterol	Magneziu	HDL	LDL
2.25	24.13	10.87	11.5	28.0	0.55	8.68	
2.15	24.03	10.0	11.17	23.5	0.6	7.33	
2.35	24.40	9.92	11.32	23.9	0.6	7.97	
2.40	24.21	10.6	11.2	24.4	0.6	7.70	
2.20	24.59	10.7	11.15	24.5	0.62	8.08	
2.30	24.74	10.7	11.17	27.5	0.57	8.92	
2.35	24.67	10.8	11.17	24.2	0.6	7.70	
2.15	24.45	10.8	11.25	24.7	0.57	9.65	
2.20	24.32	10.6	11.2	24.5	0.6	7.85	
2.25	24.48	10.7	11.15	24.8	0.57		
2.26	**24.4**	**10.57**	**11.23**	**25.0**	**0.59**	**8.2**	
0.0876	0.2323	0.3326	0.1089	1.5033	0.0215	0.7329	
3.8743	0.9521	3.1471	0.9700	6.0133	3.6564	8.9283	
0.088	**0.232**	**0.3326**	**0.1089**	**1.5033**	**0.0215**	**0.7329**	
	22.4				0.15	**0.0**	
0	**11.2**	**0**	**0**	**0**	**0.075**	0.0	
5,51 - 7,53	75,7 - 102,4	35,8 - 51,5	35,5 - 51	84,4 - 114,1	1,97 - 2,51	26,5-35,8	
6.52	89	43.7	43.3	99.2	2.2	31.1	
5.51	75.7	35.8	35.5	84.4	1.97	26.5	
7.53	102.4	51.5	51	114.1	2.51	35.8	
2.0	**26.7**	**15.7**	**15.5**	**29.7**	**0.5**	**9.3**	
0.5831	**7.7076**	**4.5322**	**4.4745**	**8.5737**	**0.1559**	**2.6847**	
0.0077	125.4940	0.1106	0.0119	2.2600	0.0061	0.5372	
0.0876	**11.2024**	**0.3326**	**0.1089**	**1.5033**	**0.0780**	**0.7329**	
0.1751	**22.4048**	**0.6652**	**0.2178**	**3.0067**	**0.1560**	**1.4658**	
-65.3374	-72.5820	-75.8146	-74.0693	-74.7984	-73.2727	-74.7588	

Laborator Medical

Ser control: ?????? -N
Biochimie Nivel Normal **Echipament: Analizor automat biochimie ????? seria ?????**
Lot ????? Expiră la ?????

Data	Uree	CAL	CREAT	TRIG	FIER	UA	Glucoza	TGP	TGO	COL	MG	GGT	ALP	HDL
01.04.2011	48.1	8.8	1.07	119.0	124.5	4.9	99	41.3	43	99.2	2.3	46.0	169.8	34.73
06.04.2011	45.6	8.3	0.89	107.4	112.6	4.4	96	37.7	41	96.1	2.0	40.5	164.8	29.34
08.04.2011	42.6	8.5	0.86	94.4	116.0	4.3	93	36.9	41	90.1	2.1	39.1	151.4	31.88
13.04.2011	44.5	8.3	0.92	105.2	114.1	4.2	93	38.0	41	92.7	2.0	40.3	157.6	30.81
15.04.2011	46.2	8.5	0.79	104.4	114.3	4.3	95	37.2	40	92.7	2.0	41.2	156.7	32.32
20.04.2011	43.9	8.4	0.96	102.9	110.8	5.0	90	41.7	50	107.8	2.3	47.5	156.7	35.68
22.04.2011	44.9	8.8	0.92	105.9	111.1	4.3	95	37.2	43	99.5	2.2	39.8	160.1	30.8
27.04.2011	45.6	8.2	0.98	103.4	120.1	4.3	94	37.1	43	89.1	2.0	42.7	165.7	42.7
29.04.2011	44.1	8	0.87	104.3	114.2	4.3	95	36.8	41	89.3	2.0	44.2	160.7	31.41
average-Media	**45.1**	**8.4**	**0.9**	**105.2**	**115.3**	**4.4**	**94.4**	**38.2**	**42.6**	**95.2**	**2.1**	**42.4**	**160.4**	**33.3**
stdev	1.5725	0.2635	0.0803	6.3481	4.4300	0.2920	2.4552	1.9042	3.0046	6.1703	0.1323	2.9453	5.6148	4.0427
Cv	3.4902	3.1289	8.7469	6.0337	3.8422	6.5705	2.5996	4.9835	7.0605	6.484	6.2994	6.9520	3.501	12.1416
UA	**1.5725**	**0.2635**	**0.0803**	**6.3481**	**4.4300**	**0.2920**	**2.4552**	**1.9042**	**3.0046**	**6.1703**	**0.1323**	**2.9453**	**5.6148**	**4.0427**
Incertitudine etalonare	**7.9**	**0.0**	0.35	**0.0**	**0.0**	**0.0**	**22.4**	**0.0**	**0.0**	**0.0**	**0.21**	**0.0**	**0.0**	**0.0**
UBetal	3.95	0.00	0.175	0.0	0.0	0.0	11.20	0.0	0.0	0.0	0.11	0.0	0.0	0.0
Ucalib.	1.35	0.0209	0.0377	0.617	9.50	0.0325	1.63	0.92	1.08	2.27	0.0176	2.91	4.05	
Ucalib. 1/2	**0.675**	**0.010**	**0.019**	**0.309**	**4.750**	**0.016**	**0.815**	**0.460**	**0.540**	**1.135**	**0.009**	**1.455**	**2.025**	
Domeniu	38,1-51,5	7,28 - 9,26	0,76 - 1,1	92 - 126	91 - 131	3,79 -5,12	80,8- 109,4	34,7- 49,9	35,8 - 51,6	80 - 108,1	1,86 - 2,37	34,8 -50	132 -189	26,5-35,8
Val tinta	44.8	8.27	0.93	109	111	4.45	95.1	42.3	43.7	94.1	2.12	42.4	161	31.1
a- limita inf	38.1	7.28	0.76	92	91	3.79	80.8	34.7	35.8	80	1.86	34.8	132	26.5
a+limita sup	51.5	9.26	1.1	126	131	5.12	109.4	49.9	51.6	108.3	2.37	50	189	35.8
a+-a- interval	**13.4**	**2.0**	**0.3**	**34.0**	**40.0**	**1.3**	**28.6**	**15.2**	**15.8**	**28.3**	**0.5**	**15.2**	**57.0**	**9.3**
Ubref- 12 REC	**3.8682**	**0.5716**	**0.0981**	**9.8150**	**11.5470**	**0.3839**	**8.2561**	**4.3879**	**4.5611**	**8.1695**	**0.1472**	**4.3879**	**16.4545**	**2.6847**
suma patrate 2	18.5309	0.0696	0.0374	40.3938	42.1875	0.0855	132.1320	3.8377	9.3194	39.3607	0.0286	10.7920	35.6267	16.3437
UC 2	**4.3048**	**0.2637**	**0.1935**	**6.3556**	**6.4952**	**0.2925**	**11.4949**	**1.9590**	**3.0528**	**6.2738**	**0.1691**	**3.2851**	**5.9688**	**4.0427**
UE 2	**8.6095**	**0.5275**	**0.3869**	**12.7112**	**12.9904**	**0.5850**	**22.9897**	**3.9180**	**6.1055**	**12.5476**	**0.3382**	**6.5702**	**11.9376**	**8.0855**
BIAS%	0.5704	1.8407	-1.3142	-3.4760	3.8739	-0.1248	-0.6893	-9.6664	-2.6189	1.1335	-0.9434	-0.0786	-0.3796	7.0632

Responsabil Analiza Sef laborator

LDL

Laborator Medical

Ser control: ?????? -N
Biochimie Nivel Normal
Lot ????? Expiră la ?????

Data	Uree	CAL	CREAT	TRIG	FIER	UA	Glucoza
01.04.2011	146.5	12.40	3.77	207.1	222.9	10.4	268
06.04.2011	145.7	12.10	3.76	190.8	219.4	10.6	267
08.04.2011	141.9	12.30	3.33	185.2	221.3	10.3	263
13,04,2011	145.1	12.30	3.8	203.2	220.3	10.6	266
15.04.2011	144.5	12.60	3.37	205.2	246.8	10.6	271
20.04.2011	153.8	12.70	4.42	208.5	245.7	10.0	265
22.04.2011	147.2	12.70	3.61	203.3	248.8	10.4	267
27.04.2011	148	11.80	3.81	207.4	224.8	10.6	264
29.04.2011	147.7	11.70	3.58	205.2	238.9	10.6	262
average-Media	**146.7**	**12.3**	**3.7**	**201.8**	**232.1**	**10.5**	**265.9**
stdev	3.2563	0.3655	0.3191	8.1257	12.6554	0.2068	2.7588
Cv	2.2195	2.9745	8.5867	4.0273	5.4526	1.9782	1.0376
UA	**3.2563**	**0.3655**	**0.3191**	**8.1257**	**12.6554**	**0.2068**	**2.7588**
Incertitudine etalonare	3.95	**0.0**	**0.7**	**0.0**	**0.0**	**0.0**	**44.6**
UBetal	1.98	0.0	0.35	0.0	0.0	0.0	22.3
Domeniu	124 - 168	11,3 - 14,4	3,11 - 4,47	183-253	202-291	8.20-11.20	215-291
Val tinta	146	12.8	3.79	218	247	9.7	253
a- limita inf	124	11.3	3.11	183	202	8.20	215
a+limita sup	168	14.4	4.47	253	291	11.20	291
a+-a- Interval	**44.0**	**3.1**	**1.4**	**70**	**89.0**	**3.0**	**76.0**
Ubref- 12 REC	**12.7017**	**0.8949**	**0.3926**	**20.2073**	**25.6921**	**0.8660**	**21.9393**
suma patrate	14.5042	0.1336	0.2244	66.0275	160.1600	0.0428	504.9011
UC 2	**3.8084**	**0.3655**	**0.4737**	**8.1257**	**12.6554**	**0.2068**	**22.4700**
UE 2	**7.6169**	**0.7311**	**0.9473**	**16.2515**	**25.3109**	**0.4137**	**44.9400**
BIAS%	0.4871	-3.9931	-1.9349	-7.4465	-6.0324	7.7892	5.0944

Responsabil Analiza

Sef laborator

Echipament: Analizor automat biochimie ????? seria ?????

TGP	TGO	COL	MG	GGT	ALP	HDL	LDL
119.8	134	177.6	4.1	195.6	386.9	69.34	
117.3	135	180.2	4.4	181.0	391.4	74.7	
117.0	135	177.2	3.8	184.3	375.6	68.4	
119.5	134	181.1	4.5	193.6	395.8	71.3	
117.0	134	183	3.7	196.3	388.8	70.94	
115.3	133	171.6	3.7	199.9	389.2	69.89	
118.5	136	179.6	4.1	195.1	392.1	73.16	
118.2	137	175.8	4.1	197.1	406.2	73.43	
117.5	134	173.9	4.1	200.3	398.7	70.62	
117.8	**134.7**	**177.8**	**4.1**	**193.7**	**391.6**	**71.3**	
1.3878	1.2247	3.6224	0.2833	6.6666	8.4645	2.0733	
1.1782	0.9095	2.0376	6.9863	3.4419	2.1613	2.9074	
1.3878	**1.2247**	**3.6224**	**0.2833**	**6.6666**	**8.4645**	**2.0733**	
0.0	**0.0**	**0.0**	**0.5**	**0.0**	**0.0**	**0.0**	
0.0	0.0	0.0	0.25	0.0	0.0	0.0	
96-137	111-160	152-205	3,69-4,7	159-229	329-473	61,2-82,8	
116	136	179	4.19	194	401	72	
95	111	152	3.69	159	329	61.20	
137	160	205	4.7	229	473	83	
42.0	**49.0**	**53.0**	**1.0**	**70.0**	**144.0**	**21.6**	
12.1244	**14.1451**	**15.2998**	**0.2916**	**20.2073**	**41.5692**	**6.2354**	
1.9261	1.5000	13.1219	0.1428	44.4436	71.6475	4.2984	
1.3878	**1.2247**	**3.6224**	**0.3779**	**6.6666**	**8.4645**	**2.0733**	
2.7757	**2.4495**	**7.2448**	**0.7557**	**13.3332**	**16.9290**	**4.1465**	
1.5421	-0.9804	-0.6828	-3.2087	-0.1604	-2.3358	-0.9599	